

2000 High-Maintenance Kentucky Bluegrass Cultivar Trial

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The National Turfgrass Evaluation Project (NTEP) has sponsored several regional Kentucky bluegrass cultivar trials conducted at most of the northern agricultural experiment stations. This trial was established in the fall of 2000. The area receives 4 lb N/1000 ft²/yr and is irrigated as needed. The objective of this study is to investigate cultivar performance under a high-maintenance cultural regime similar to that used on irrigated home lawns in Iowa.

The visual quality was evaluated monthly in 2005 from May through October (Table 1). The values listed under each month in Table 1 are the averages of visual quality ratings made on three replicated plots. Visual quality was based on a scale of 9 to 1: 9 = best quality, 6 = lowest acceptable quality, and 1 = worst quality. The yearly average of the monthly data for each cultivar was calculated and is listed in the last column (Mean). The first cultivar listed in Table 1 had the highest average visual quality rating for the entire 2004 season. The cultivars are listed in descending order by average quality. The last row states the LSD (least significant difference), which is a statistical measurement of how widely the datum in each column must vary before they are considered to be different from one another.

Data for genetic color (Gen Color) and leaf texture (Leaf Tex) were also collected in June 2005. Genetic color was rated using a 9 to 1 scale with 9 = dark and 1 = light green. Leaf texture was assessed with a 9 to 1 scale with 9 = fine and 1 = coarse texture. Spring greenup (Greenup) data were taken in April 2004 and were estimated using a 9 to 1 scale with 9 = green and 1 = dormant turf. In June and September 2005, considerable leaf spot damage was observed on some cultivars. Leaf spot ratings were made on a scale of 9=no damage and 1=most severely damaged. Rust was also observed late in the season. Rust damage was rated on a scale of 9=no damage and 1=most damage.

Table 1. 2005 visual quality and other ratings for the 2000 High-Maintenance Kentucky Bluegrass Cultivar Trial

Kentucky Bluegrass Cultivar	GenColor	Greenup	LeafTex	-----Visual Quality-----							Mean
				May	Jun	Jul	Aug	Sep	Oct		
TSUNAMI (J-2487)	8.7	5.7	7.7	8.0	8.3	8.7	8.7	9.0	8.7	8.6	
ARCADIA	8.7	5.7	7.7	6.0	8.3	9.0	8.7	8.3	8.7	8.2	
BEYOND (J-1880)	9.0	5.3	7.7	6.3	7.3	8.7	9.0	9.0	8.7	8.2	
BLUE VELVET (J-1513)	8.0	5.3	7.3	7.7	7.3	8.7	8.7	8.7	8.3	8.2	
EVERGLADE	8.7	5.3	7.3	6.7	8.0	8.3	9.0	8.3	8.0	8.1	
FREEDOM III (J-2890)	8.3	5.7	7.0	7.3	7.3	7.7	8.7	8.7	9.0	8.1	
GINNEY (J-1368)	8.7	5.7	6.7	7.3	7.0	8.3	8.7	9.0	8.3	8.1	
RUGBY II	9.0	5.7	6.7	7.7	8.3	8.0	8.0	8.7	8.0	8.1	
TOTAL ECLIPSE	9.0	5.7	6.7	7.0	7.7	8.0	8.7	8.7	8.7	8.1	
UNKNOWN	8.7	5.0	7.0	7.0	8.0	8.0	8.3	9.0	8.3	8.1	
BARRISTER (J-1655)	8.0	5.3	7.3	7.7	7.3	8.3	8.7	8.3	7.7	8.0	
COURTYARD (J-1838)	8.3	4.7	7.0	7.3	7.0	7.3	8.3	8.7	8.7	7.9	
MIDNIGHT II (A97-739)	9.0	5.0	7.3	7.3	7.3	8.7	7.0	8.3	8.7	7.9	
ALEXA (J-2561)	8.7	5.3	7.0	7.0	7.7	6.3	8.3	8.3	9.0	7.8	
BEDAZZLED	7.0	6.3	6.7	8.3	8.0	7.3	7.0	8.7	7.7	7.8	
BLUESTONE (PST-731)	7.3	5.7	7.0	7.3	7.7	8.3	7.3	7.7	8.3	7.8	
IMPACT	8.0	5.0	7.3	6.7	7.0	8.7	7.7	8.3	8.3	7.8	
NORTH STAR	8.7	3.7	7.3	6.0	8.0	8.7	8.3	8.0	7.7	7.8	
ARROW (A97-1567)	7.7	6.0	6.3	7.3	7.7	8.0	7.0	7.7	8.3	7.7	
DELIGHT (A97-1432)	7.7	6.3	7.3	7.3	8.7	7.7	7.0	7.7	7.7	7.7	
NU DESTINY (J-2695)	9.0	5.7	7.0	6.0	7.3	8.0	7.3	8.7	8.7	7.7	
ODYSSEY	8.3	5.3	7.0	7.3	7.0	7.0	8.0	8.7	8.3	7.7	
LANGARA	7.3	5.7	7.0	7.3	7.3	7.0	7.7	8.3	8.0	7.6	
MIDNIGHT	8.7	5.7	7.0	6.3	8.0	8.0	7.7	7.7	8.0	7.6	
QUANTUM LEAP	8.7	5.3	7.3	6.0	7.7	7.3	7.7	8.7	8.3	7.6	
AWESOME (J-1420)	8.7	5.0	7.3	7.0	8.3	7.3	7.0	8.0	7.0	7.4	
MALLARD (A97-1439)	7.7	5.7	6.3	6.0	7.0	7.7	8.0	7.7	8.0	7.4	
BA 82-288	6.3	5.7	6.7	7.3	6.0	6.7	7.0	8.3	8.7	7.3	
MOONLIGHT	8.7	4.3	5.7	7.0	8.3	7.0	7.0	7.0	7.3	7.3	
NUGLADE	8.7	5.7	7.3	7.0	7.3	7.0	7.7	7.7	7.0	7.3	
EXCURSION (J-1648)	9.0	4.7	6.7	6.7	8.0	6.3	6.7	8.0	7.7	7.2	
GOLDSTAR (A98-296)	7.0	5.3	6.3	6.3	7.3	6.3	7.3	8.0	8.0	7.2	
RAMBO	7.3	6.3	7.0	7.0	7.3	6.7	7.3	6.7	8.0	7.2	
SI A96-386	7.7	4.7	6.3	5.7	8.3	7.0	8.0	7.7	6.7	7.2	
A98-183	8.3	6.3	6.3	6.7	7.0	8.0	7.0	7.3	6.7	7.1	
EVEREST	8.0	5.7	6.7	6.3	6.3	7.0	7.3	8.0	7.3	7.1	
MONTE CARLO (A96-402)	7.3	6.0	7.0	7.3	7.7	6.3	6.0	7.7	7.7	7.1	
PST-161	6.7	7.3	6.7	7.0	6.7	6.0	7.0	8.3	7.7	7.1	
A96-739	8.0	6.0	6.3	7.0	7.3	6.0	7.3	8.0	6.3	7.0	
BLACKSBURG II (PST-1BMY)	6.7	5.7	6.7	7.3	6.7	6.0	7.0	8.3	6.7	7.0	
BOUTIQUE	7.7	5.3	6.7	6.7	6.3	6.3	6.7	9.0	7.0	7.0	
CABERNET	6.3	7.3	8.0	8.3	6.7	6.3	6.7	7.3	6.0	6.9	
DIVA (PRO SEEDS - 453)	7.0	5.7	6.3	8.0	6.7	6.7	6.7	7.7	6.0	6.9	
GLENMONT (H94-293)	8.0	5.0	6.3	6.3	7.3	7.0	7.0	6.7	7.0	6.9	
HV 238	7.3	6.0	6.7	6.3	7.7	7.0	7.0	7.0	6.7	6.9	
KINGFISHER (SRX 2394)	7.0	4.7	7.0	6.0	6.3	6.3	7.3	8.3	7.3	6.9	
PERFECTION (J-1515)	8.7	6.7	7.0	6.3	6.7	6.3	7.0	7.3	7.7	6.9	
RAVEN	6.3	6.0	6.3	6.3	7.7	7.0	7.3	6.7	6.7	6.9	
SHOWCASE	6.7	5.3	6.7	7.0	6.3	6.7	7.3	6.7	7.7	6.9	
ABBEY	7.3	6.3	6.3	6.0	6.3	7.0	7.0	8.0	6.7	6.8	
BLUE RIDGE (A97-1449)	7.3	4.7	6.0	6.0	7.3	7.3	7.0	7.0	6.0	6.8	
LIBERATOR	7.7	4.7	6.7	7.0	6.0	7.0	7.3	7.0	6.7	6.8	
MISTY	7.3	6.3	7.0	6.0	6.7	6.7	8.0	6.3	7.0	6.8	
SONOMA	7.3	5.7	6.7	6.7	6.7	6.0	6.7	7.0	7.7	6.8	
VALOR (A97-1330)	6.3	5.7	7.0	7.3	6.0	6.3	7.3	7.3	6.7	6.8	
BLUE KNIGHT	7.0	5.3	7.3	6.3	6.3	7.3	7.3	5.7	7.0	6.7	
BORDEAUX	6.7	5.0	6.3	6.3	6.3	7.0	7.7	7.3	5.3	6.7	
J-2885	7.7	5.0	6.3	6.0	5.7	6.7	6.3	8.0	7.7	6.7	
PP H 7907	7.3	5.3	6.3	6.0	6.3	6.3	7.7	6.7	7.0	6.7	
SKYE (A97-1715)	7.3	6.0	7.3	7.0	7.0	6.3	7.0	7.3	5.7	6.7	
VOYAGER II (PST-1QG-27)	6.3	5.7	6.7	6.3	7.0	7.0	7.3	6.3	6.0	6.7	
BH 00-6003	7.0	5.7	7.0	6.7	6.7	6.3	6.3	6.7	6.7	6.6	
H92-558	8.3	5.7	6.0	5.3	7.0	7.0	6.7	7.0	6.7	6.6	
APOLLO	6.3	5.0	7.0	6.7	6.3	7.3	6.3	6.3	6.0	6.5	
BA 00-6001	6.7	5.3	6.7	6.0	7.0	7.0	6.0	6.7	6.3	6.5	

BAR PP 0468	5.7	5.7	6.7	7.0	5.3	7.0	7.0	6.7	6.0	6.5
BLUE-TASTIC (1B7-308)	8.0	4.3	5.7	6.3	6.0	6.3	6.3	6.7	7.3	6.5
ULYSSES (PP H 7832)	7.3	6.0	6.7	6.0	5.7	6.7	7.0	6.7	7.0	6.5
A96-742	6.3	8.0	7.0	6.7	6.7	6.7	6.3	6.7	5.3	6.4
A98-407	7.3	6.0	6.0	6.3	5.3	5.7	7.0	6.7	7.3	6.4
AWARD	8.3	5.3	7.0	6.3	6.7	6.0	6.0	6.7	6.7	6.4
BAR PP 0573	7.0	6.0	6.3	6.0	6.7	6.0	5.7	6.7	7.3	6.4
DLF 76-9034	6.0	6.7	6.7	6.7	7.0	6.7	6.0	6.0	6.0	6.4
PST-YORK HARBOR 4	7.0	5.3	7.3	7.3	7.0	6.3	6.7	5.3	6.0	6.4
SERENE	7.7	5.3	6.3	4.7	6.0	6.3	8.0	7.3	6.0	6.4
SORBONNE (DLF 76-9037)	6.0	5.3	6.7	6.3	5.7	7.0	6.0	7.0	6.3	6.4
SR 2284 (SRX 2284)	6.7	4.7	6.7	5.7	6.7	6.7	6.0	7.7	5.7	6.4
BAR PP 0471	6.3	4.7	6.3	6.3	5.3	6.7	6.7	7.0	6.0	6.3
BODACIOUS	7.3	6.0	6.0	5.3	5.7	7.0	7.0	6.3	6.3	6.3
BRILLIANT	6.7	4.0	7.0	6.3	5.0	7.0	7.3	6.0	6.3	6.3
BROOKLAWN	6.0	6.7	6.3	6.7	5.7	6.0	6.0	7.7	6.0	6.3
CASABLANCA (B3-171)	5.7	5.7	7.3	6.7	7.3	6.0	6.0	5.7	6.0	6.3
LAKESHORE (A93-200)	6.0	7.0	7.3	6.7	5.3	6.0	7.0	6.0	7.0	6.3
PST-B5-125	7.0	4.7	7.0	5.7	6.7	6.0	7.0	6.0	6.7	6.3
ROYALE (A97-1336)	7.3	5.0	6.3	6.7	7.0	6.3	6.0	5.7	6.3	6.3
AVALANCHE (PST-1701)	6.3	8.0	7.3	7.0	5.0	6.7	6.7	6.0	5.7	6.2
BH 00-6002	6.7	6.3	6.3	7.3	6.3	5.7	5.3	6.3	6.0	6.2
CHAMPAGNE	7.0	7.0	6.7	6.7	6.3	6.0	6.7	6.0	5.3	6.2
MONGOOSE (A98-881)	6.0	6.7	7.0	6.3	5.3	6.3	6.3	6.7	6.3	6.2
PST-H5-35	7.0	5.0	6.3	6.0	6.3	5.3	6.3	6.3	7.0	6.2
RITA	7.0	4.7	6.7	5.7	6.0	6.3	5.7	6.7	6.7	6.2
SRX 2114	8.0	4.7	7.0	5.3	5.7	7.3	7.3	5.3	6.0	6.2
APPALACHIAN (A98-139)	7.3	7.7	6.3	6.3	6.7	4.7	4.7	6.7	6.3	6.1
BAR PP 0566	7.0	5.7	6.3	5.3	6.0	5.7	6.7	6.7	6.0	6.1
BOOMERANG	7.7	6.0	6.0	5.7	6.0	6.3	6.0	6.0	6.3	6.1
NA-K992	7.3	5.3	6.0	5.3	6.3	6.7	6.0	5.7	6.3	6.1
ROYCE (A98-304)	7.0	5.7	7.0	6.0	4.7	6.3	6.7	6.3	6.3	6.1
SRX QG245	7.0	6.7	7.0	6.7	6.7	6.0	6.7	5.3	5.3	6.1
UNIQUE	6.3	5.0	6.7	6.7	5.0	6.3	6.7	6.7	5.3	6.1
A97-1409	7.3	4.7	6.0	5.0	5.0	6.0	6.3	6.7	7.0	6.0
BARONETTE (BA 81-058)	7.0	6.3	7.3	6.3	6.3	5.7	6.7	5.3	5.7	6.0
BARZAN	6.0	6.0	7.3	5.3	4.7	5.7	7.0	6.7	6.7	6.0
BLUEMAX (PST-B5-89)	8.3	4.7	5.3	5.3	5.3	6.3	5.7	6.0	7.3	6.0
MARQUIS	6.7	6.0	6.3	6.0	5.3	6.3	6.3	5.7	6.3	6.0
MERCURY (PICK-232)	6.7	5.3	6.3	6.7	5.7	6.0	6.0	6.3	5.3	6.0
A98-1028	6.3	6.3	7.3	7.0	5.7	4.7	5.7	6.3	6.0	5.9
ALLURE	7.0	5.7	5.7	4.7	5.3	5.7	6.7	6.0	7.0	5.9
DYNAMO (B3-185)	6.7	5.0	6.7	5.7	5.3	5.3	6.3	6.3	6.3	5.9
EAGLETON	5.7	6.7	6.3	6.3	5.7	7.0	6.3	5.3	5.0	5.9
GOLDRUSH	7.0	5.0	5.7	6.0	5.0	6.3	7.0	5.7	5.7	5.9
HALLMARK	7.3	5.0	7.0	5.7	6.0	6.3	6.7	5.0	6.0	5.9
HV 140	7.3	5.7	6.7	4.7	5.7	6.3	5.0	7.0	6.7	5.9
KENBLUE	6.0	8.0	9.0	5.7	6.3	6.3	6.3	6.0	4.7	5.9
PP H 7929	6.7	6.0	6.0	6.0	6.0	6.7	6.0	5.7	5.3	5.9
PST-108-79	6.7	4.7	5.7	5.3	3.7	6.0	7.0	7.3	6.3	5.9
PST-604	7.7	5.7	6.3	5.7	6.7	6.0	6.0	5.3	6.0	5.9
PST-H6-150	7.3	5.3	6.3	7.0	6.0	4.7	5.7	6.3	6.0	5.9
WILDWOOD	6.3	5.3	7.3	5.7	7.0	6.3	6.0	5.0	5.7	5.9
ALPINE	6.3	5.0	7.0	5.7	5.3	6.3	6.7	5.0	5.7	5.8
BARON	7.3	4.7	6.0	5.7	5.0	6.7	6.3	5.7	5.7	5.8
BARONIE	7.0	5.3	6.0	5.7	6.0	5.7	5.3	6.7	5.3	5.8
CHEETAH (PP H 6370)	6.7	5.3	7.3	5.0	5.3	6.3	6.3	6.7	5.0	5.8
H92-203	6.7	4.0	7.0	6.0	6.3	5.3	5.0	6.3	6.0	5.8
JEFFERSON	6.0	7.3	7.3	5.7	5.3	5.7	6.7	6.0	5.3	5.8
JEWEL	6.0	5.0	7.3	5.3	6.3	5.7	5.7	6.0	5.7	5.8
MOONSHINE (PST-1804)	6.3	7.3	7.3	5.7	6.7	5.0	5.7	6.3	5.7	5.8
PICK 453	7.7	5.0	6.7	5.0	6.3	6.3	6.0	5.3	5.7	5.8
PST-B4-246	7.3	4.7	6.7	5.7	5.7	6.0	6.0	5.3	6.0	5.8
SHAMROCK	6.0	6.3	7.0	5.7	5.3	5.7	5.7	6.3	6.0	5.8
WASHINGTON	5.3	7.7	7.7	6.0	6.0	6.3	6.3	5.3	5.0	5.8
BA 83-113	6.7	5.7	6.0	5.0	5.7	5.0	6.7	6.0	5.7	5.7
BARTITIA	6.7	5.0	6.7	5.3	5.7	6.0	6.3	6.0	5.0	5.7
BLACKSTONE	7.7	5.0	6.3	4.0	6.0	6.0	6.3	6.0	6.0	5.7
CHICAGO II	7.3	4.7	5.7	5.7	6.3	5.3	5.7	5.7	5.7	5.7
GO-9LM9	6.7	6.3	8.3	6.0	6.0	6.3	5.7	5.3	4.7	5.7

JULIA	5.7	7.0	7.3	5.3	5.7	6.0	6.3	5.3	5.3	5.7
A97-857	6.3	6.0	6.7	5.7	5.0	6.3	5.7	5.0	6.0	5.6
A98-365	7.7	4.7	6.0	6.0	4.3	5.7	5.7	6.7	5.3	5.6
ASCOT	7.3	6.0	6.0	5.0	5.3	5.3	5.3	6.0	6.7	5.6
BARIRIS	8.0	5.7	6.3	5.3	6.0	6.0	6.0	5.3	4.7	5.6
BARITONE	6.3	5.3	5.7	5.0	5.0	6.7	5.3	5.3	6.0	5.6
CHELSEA	5.3	6.3	7.0	5.7	5.0	6.0	6.0	5.3	5.3	5.6
DURHAM (A96-427)	6.3	6.3	6.7	5.0	5.7	5.3	6.0	6.0	5.7	5.6
ENVICTA	6.7	5.0	7.0	5.0	5.7	5.7	5.7	6.0	5.3	5.6
KATIE (A96-451)	6.0	4.0	5.3	5.0	6.0	6.3	5.0	5.3	5.7	5.6
PST-222	7.0	5.3	6.0	5.0	5.7	5.3	5.7	6.7	5.0	5.6
PST-B3-170	7.0	4.7	6.7	6.3	5.3	6.0	6.0	5.0	5.0	5.6
BLUE SAPPHIRE (NA-K991)	7.0	5.3	6.3	5.0	5.3	6.0	6.0	5.0	5.7	5.5
LILY	7.3	6.3	7.0	5.7	5.0	6.0	5.7	5.0	5.7	5.5
BA 84-140	7.7	5.3	5.7	5.3	6.7	5.3	4.3	5.3	5.7	5.4
COVENTRY	6.3	4.7	5.7	4.3	5.0	6.0	5.7	5.0	6.3	5.4
LIMOUSINE	6.0	7.7	6.3	5.0	4.7	6.0	5.7	5.7	5.3	5.4
WELLINGTON	6.3	7.0	7.3	5.3	5.0	5.3	5.7	6.0	5.0	5.4
CVB-20631	6.7	5.0	6.3	4.7	4.7	6.0	4.7	5.3	5.7	5.2
DLF 76-9032	6.7	5.0	6.3	4.3	4.3	6.0	5.7	5.0	6.0	5.2
99AN-53	5.7	6.0	6.7	5.3	5.3	5.3	5.3	4.7	4.7	5.1
DLF 76-9036	7.7	5.0	6.0	5.0	5.0	5.3	6.0	5.0	4.3	5.1
FREEDOM II	7.3	5.0	6.7	5.0	4.3	4.7	5.3	4.7	6.3	5.1
B5-43	6.0	6.3	6.0	4.7	4.0	5.3	5.3	4.7	6.0	5.0
B5-144	6.3	5.7	6.0	3.7	4.0	5.0	6.0	4.7	6.0	4.9
CHAMPLAIN (A98-1275)	6.7	4.3	6.7	5.0	4.3	4.7	5.0	5.3	5.3	4.9
JULIUS	6.7	4.7	6.0	4.3	4.3	4.7	5.3	5.7	5.0	4.9
PP H 6366	6.7	6.0	5.7	4.7	4.7	4.7	5.3	5.0	5.3	4.9
RAMPART (PICK 417)	7.7	4.7	5.3	3.7	5.0	4.3	5.3	5.3	6.0	4.9
SRX 26351	6.7	5.0	5.7	4.3	4.7	5.3	5.0	5.0	5.0	4.9
SRX 27921	8.0	5.0	6.7	5.0	4.0	5.7	5.0	4.7	5.3	4.9
B5-45	6.7	5.7	6.0	4.7	5.0	5.0	5.0	4.7	4.7	4.8
FAIRFAX	6.7	4.7	6.0	4.7	3.7	5.0	5.7	4.3	5.3	4.8
MOON SHADOW (PICK 113-3)	6.7	5.3	6.7	4.7	5.0	4.7	4.7	5.7	4.3	4.8
B4-128A	6.7	5.3	7.0	5.0	3.7	5.0	4.3	4.3	6.0	4.7
CHATEAU	7.0	5.7	5.3	3.7	4.0	5.0	5.0	4.7	5.7	4.7
PRINCETON 105	6.7	4.7	6.0	4.7	3.3	4.3	5.0	5.3	5.7	4.7
LIMERICK	5.7	4.7	6.0	4.0	3.7	5.3	4.3	4.3	4.3	4.3
LSD	1.6	1.7	1.2	2.4	2.8	2.3	2.1	2.1	2.1	1.5